

Appl. No 10/822,448

**Amendments to the Drawings**

Please replace drawing Sheet 10/38 with a Replacement Sheet 10/38 containing Figs. 6A, 6B, 6D, and a corrected Fig. 6C.

Please replace drawing Sheet 18/38, containing Figs. 14E and 14F, with a Replacement Sheet 18/38 containing Figs. 14E, 14F, and 26.

The Replacement Sheets 10/38 and 18/38 are included in this communication.

## REMARKS

### Claims

Claims 1-9 remain unchanged.

Claim 10 is amended so that it includes limitations of claim 2, and claim 11 is amended so that it includes limitations of claim 10. Together, the above amendments to claims 10 and 11 provide the following antecedents for claims 12, 15, 16, 17, and 18:

Antecedent for “said volume-decreasing stroke” in claim 12, line 4; claim 16, lines 15 and 31; claim 17, lines 15, 39, and 43; and claim 18, lines 15, 24, 27, and 36.

Antecedent for “said fuel delivery means” in claim 15, line 4; claim 16, line 4; claim 17, line 4; and claim 18, line 4.

Antecedent for “said at least one secondary cylinder” in claim 15, line 20 and claim 17, line 2.

Antecedent for “said at least one primary cylinder” in claim 16, lines 17-18 and claim 18, lines 17-18.

Claim 12 is amended by inserting the word “a” between “of” and “valve-opening” in line 17.

Claims 13-19 remain unchanged.

Claims 20-43 remain withdrawn.

Claim 44 is canceled.

Claim 45-47 remain withdrawn.

Claim 48 remains cancelled.

Claim 49 is a new claim, which is a modification of the canceled claim 44. It includes all the elements and functions of claim 44, but it also includes the function of two-stage air compression in combination with two-stage air expansion in at least two engine cylinders, which is not part of the patents 6,223,846 and 6,695,591.

### Specification

A paragraph listing an additional Fig. 26 is added to the list of drawings on page 19, after line 20.

A listing of the additional Fig. 26 is added to the subtitle on page 19, line 22.

A paragraph describing coupling of the engine to the transmission and to the vehicle wheels with reference to drawing Fig. 26 is added on page 25, after line 23.

### Drawings

Fig. 6C is changed to correct an incorrectly drawn lead line to valve 22. Original Sheet 10/38 containing Figs. 6A, 6B, 6C, and 6D is replaced by Replacement Sheet 10/38 containing Figs. 6A, 6B, 6D, and corrected Fig. 6C.

Fig. 26 illustrating coupling of the engine to the transmission and to the vehicle wheels is added. Original Sheet 18/38 containing Figs. 14E and 14F is replaced by Replacement Sheet 18/38 containing Figs. 14E, 14F, and 26.

The total number of sheets remains unchanged.

Respectfully submitted



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### **Certificate of Mailing**

I hereby certify that this correspondence and attachments, if any, will be deposited with the United States Postal Service by First Class Mail, postage prepaid, in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" on the date below.

Date: January 12, 2007

Inventor's Signature: Michael M. Schechter